

Key Features

- Fully automated signal processing
- Processing of ITU R-Series and V-Series Telex/modem standards
- Processing of non-ITU standard signals
- Group 3 FAX support, including T.30 control protocol
- Automatic detection and fast-training on dial-up and FAX signals
- Support for input data companding formats
- Standard WAV or raw file input, or real-time input via streaming I/O
- Standalone application with GUI or available in library format
- Automatic Output File creates standard files (TIFF and Text) for use with other applications

FSK, VFT, Modem and Fax Demodulation Software

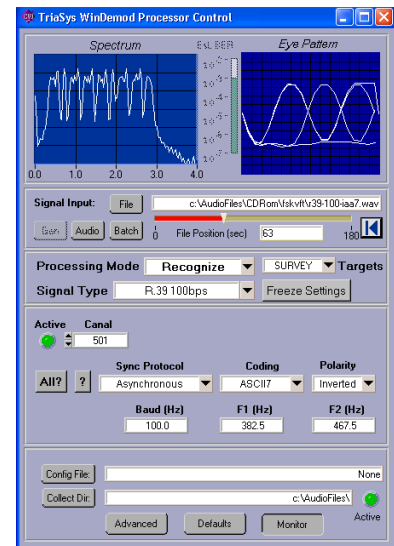
TriaSys' WinDemod is a powerful software tool for processing and analyzing audio signals. WinDemod carries out detailed recognition and processing of FSK, VFT, Modem and Fax signals found on telecommunications circuits and RF environments.

As an industry standard for automatic processing of modem and fax signals, WinDemod performs automatic demodulation, demultiplexing, bitstream synchronization and back-end processing for commercially available modem (PSK/QAM) and voice frequency telegraphy (FSK/VFT) signals, as well as complete Group 3 FAX processing.

In addition, WinDemod's automatic recognition capability can identify and demodulate non-standard FSK/VFT formats and perform general parametric identification and demodulation of non-standard PSK/QAM formats.

Signal input can be via WAV file format or real-time streaming audio. Processing can be done in either automatic or manual mode. In automatic mode, no operator assistance is required. In manual mode, an operator can control individual signal parameters including modem type, rate, multiplexing format and coding.

WinDemod is a standalone application available for Win32, Linux and Solaris environments. WinDemod is also available in library format for integration into custom applications or embedded systems.



User-Friendly Interface

WinDemod's GUI offers complete control and versatility. Displays of input spectrum and constellation allow for detailed control and analysis of a wide range of signal and bitstream formats.

Specifications

Signal Set

R.31, R.35, R.36, R.37,
R.38A/B, R.39
V.21, V.22, V.22bis,
V.23, V.26A/B
V.27A/B/bis/ter, V.29,
V.32, V.33
Bell 103, 202
V.22bis (full-duplex)
V.32bis (half-duplex)
Group 3, V.17, V.34 Fax

Multiplexing Formats

R.101A/B Strapping

Bit Stream Protocols

Async, Bisync, HDLC,
SDLC, X.25, SNA,
DDCMP, IPARS,
MNP-4, Binary, BER, CND
(Caller ID)

Character Sets

ASCII-7, ASCII-8,
EBCDIC, Baudot

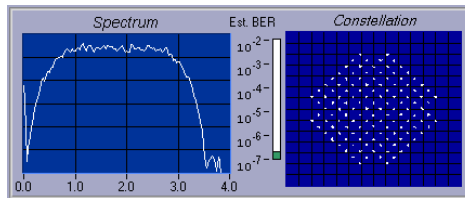
Compression Protocols

MNP-5, V.42, LAP-M

Fax Coding

1D, 2D and ECM
T.4 and T.6

The WinDemod interface can operate in either automatic or manual mode. In addition, a batch mode can simultaneously process an entire directory of signal files while generating demodulated output. This bulk processing capability can be integrated into large collection systems, such as those using TriaSys Signal Collection Servers.



PSK/QAM Demodulation Example

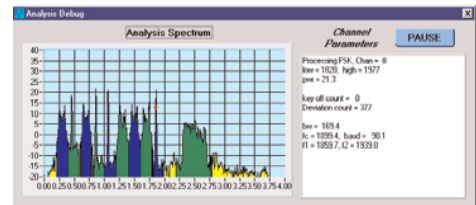
Fully Automatic Signal Recognition

Automatic signal recognition is one of the most powerful features of WinDemod. Using TriaSys' proprietary algorithms we have extended our capability from recognizing the standard ITU (CCITT) formats to include generic parametric recognition.

Generic FSK/VFT Recognition

WinDemod's generic FSK/VFT capability is designed to recognize all FSK canals present in any input signal, regardless of whether the signal conforms to a known template. The software recognizes the individual parameters of each canal and uses them to setup the demodulation. This provides the ability for recognition and demodulation in all environments and all non-standard formats, including RF where the channel may be mistuned.

WinDemod

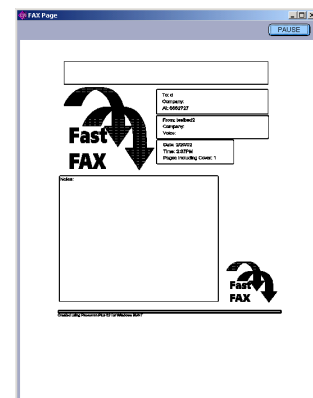


FSK /VFT Analysis

Fully Automated FAX Processing

WinDemod's fully automated FAX processing combines standard T.30 based setup and training information with TriaSys' FAX analysis capability allowing WinDemod to process FAX signals regardless of whether good T.30 training is present or not.

This unique capability makes WinDemod the leading FAX processing package for processing FAX signals in real collection scenarios where pristine signal quality is not the norm.



To Inquire or Order

For a demonstration, further information, or to contact a representative, please call 978.244.1060, or visit our website at www.triasys.us.